

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work-"Improvement of Concrete Roads And Drains in Allansandra Colony"

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
1	Removing And Resetting Of Footpath Slab [Approved Rate]								
		Sqm							
	Allansandra Colony								
	Backup Anjenaya Temple Rd		1	69.00	0.60		41.40		
	Connecting Rd		1	59.00	0.60		35.40		
	Connecting Rd		1	64.00	0.60		38.40		
	Connecting Rd		1	52.00	0.60		31.20		
							146.40	250.00	36,600.00
	Approved Amount		250.00						
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work . (V-I.No 1.4,Page No-5 CSR 2023-24) & (V-III Page No.5, Item No.1.1C of CSR 2023-24)								
		Cum							
	Drain Desilt								
	Allansandra Colony								
	Backup Anjenaya Temple Rd		1	69.00	0.30	0.40	8.28		
	Connecting Rd		1	59.00	0.30	0.50	8.85		
	Connecting Rd		1	64.00	0.30	0.50	9.60		
	Connecting Rd		1	52.00	0.30	0.40	6.24		
	RCC Drain								
	Kanakanagara								
	5th Cross Rd LHS		1	46.80	1.40	1.20	78.62		
	5th Cross Rd RHS		1	11.00	1.10	1.20	14.52		
	4th Cross Rd		1	15.00	1.10	1.20	19.80		
	29th Cross Rd LHS		1	91.20	1.10	1.20	120.38		
	29th Cross Rd RHS		1	57.00	1.10	1.10	68.97		
	Allansandra Colony Burial Ground Rd		1	35.00	1.10	1.10	42.35		
	Kankanagara Main Rd		2	118.00	1.10	1.10	285.56		
	RCC Culvert								
	5th Cross Rd RHS		1	5.50	1.40	1.20	9.24		
	5th Cross Rd RHS		1	6.20	1.40	1.00	8.68		
	29th Cross Rd LHS		1	4.80	1.40	1.00	6.72		
			1	2.40	1.40	1.00	3.36		
	Debris		6	3.00	2.00	0.30	10.80		
							701.98	400.00	280791.20
	Approved Amount		400.00						

	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of CSR 2023-24)								
		Cum							
	RCC Drain								
	Kanakanagara								
	5th Cross Rd LHS		1	46.80	1.40	0.15	9.83		
	5th Cross Rd RHS		1	11.00	1.10	0.15	1.82		
	4th Cross Rd		1	15.00	1.10	0.15	2.48		
	29th Cross Rd LHS		1	91.20	1.10	0.15	15.05		
	29th Cross Rd RHS		1	57.00	1.10	0.15	9.41		
	Allansandra Colony Burial Ground Rd		1	35.00	1.10	0.15	5.78		
	Kankanagara Main Rd		2	118.00	1.10	0.15	38.94		
	RCC Culvert								
	5th Cross Rd RHS		1	5.50	1.40	0.15	1.16		
	5th Cross Rd RHS		1	6.20	1.40	0.15	1.30		
	29th Cross Rd LHS		1	4.80	1.40	0.15	1.01		
			1	2.40	1.40	0.15	0.50		
							87.26	7000.00	610785.00
	Approved Amount		7000.00						
4	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification. All other type of structures. (V-I, I.No 2.11 h Page No 18, CSR 2023-24)								
		Ton							
	Consider 65kg/Cum For Drain		1	174.91	65.00		11369.28		
	Consider 90kg/Cum For Culvert		1	11.44	90.00		1029.24		
							12398.52		
							12.40	88000.00	1091069.76
	Approved Amount		88000.00						
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1, P.No.16, I.No.2.4.2 of CSR 2023-24) & (Addendum I , V-1, P.No.111 of CSR 2023-24)								
		Cum							
	RCC Drain Raft								
	Kanakanagara								
	5th Cross Rd LHS		1	46.80	1.20	0.15	8.42		
	5th Cross Rd RHS		1	11.00	0.90	0.15	1.49		

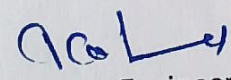
Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
4th Cross Rd		1	15.00	0.90	0.15	2.03		
29th Cross Rd LHS		1	91.20	0.90	0.15	12.31		
29th Cross Rd RHS		1	57.00	0.90	0.15	7.70		
Allansandra Colony Burial Ground Rd		1	35.00	0.90	0.15	4.73		
Kankanagara Main Rd		2	118.00	0.90	0.15	31.86		
RCC Drain Wall								
Kanakanagara								
5th Cross Rd LHS		2	46.80	0.15	0.90	12.64		
5th Cross Rd RHS		2	11.00	0.15	1.00	3.30		
4th Cross Rd		2	15.00	0.15	0.90	4.05		
29th Cross Rd LHS		2	91.20	0.15	1.00	27.36		
29th Cross Rd RHS		2	57.00	0.15	0.60	10.26		
Allansandra Colony Burial Ground Rd		2	35.00	0.15	0.60	6.30		
Kankanagara Main Rd		4	118.00	0.15	0.60	42.48		
						174.91		
RCC Culvert Raft								
5th Cross Rd RHS		1	5.50	1.20	0.20	1.32		
5th Cross Rd RHS		1	6.20	1.20	0.20	1.49		
29th Cross Rd LHS		1	4.80	1.20	0.20	1.15		
		1	2.40	1.20	0.20	0.58		
RCC Culvert Wall								
5th Cross Rd RHS		2	5.50	0.23	0.90	2.28		
5th Cross Rd RHS		2	6.20	0.23	0.75	2.14		
29th Cross Rd LHS		2	4.80	0.23	0.75	1.66		
		2	2.40	0.23	0.75	0.83		
						11.44		
						186.35	7500.00	1397610.00
Approved Amount		7500.00						
6	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement, with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST) Approved Rate							
	Sqm							
Kanakanagara								
5th Cross Rd LHS		1	46.80	1.20		56.16		
5th Cross Rd RHS		1	11.00	0.90		9.90		
4th Cross Rd		1	15.00	0.90		13.50		
29th Cross Rd LHS		1	91.20	0.90		82.08		
29th Cross Rd RHS		1	57.00	0.90		51.30		
Allansandra Colony Burial Ground Rd		1	35.00	0.90		31.50		
Kankanagara Main Rd		2	118.00	0.90		212.40		
Deduct Old Slab		-14	0.60	0.90		-7.56		
						449.28	2100.00	943488.00
Approved Amount		2100.00						

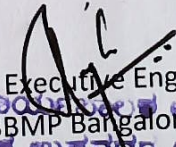
Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Providing and fixing precast reinforced cement concrete covering slabs of 23Cm thick made of M25 with OPC cement, @340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine, mixed, Including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work. (Exclusive of GST) Approved Rate								
	Sqm							
Culvert Precast Slab								
5th Cross Rd RHS		1	5.50	1.20		6.60		
5th Cross Rd RHS		1	6.20	1.20		7.44		
29th Cross Rd LHS		1	4.80	1.20		5.76		
		1	2.40	1.20		2.88		
						22.68	5100.00	115668.00
Approved Amount			5100.00					
8	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separatel (V-III Page No.12, Item No.2.19 of CSR 2023-24)							
	Cum							
For CC Road								
Kanakanagara								
5th Cross Rd/2		1	14.70	3.00	0.25	11.03		
Connecting Rd		1	45.90	1.00	0.20	9.18		
						20.21	625.00	12,628.13
Approved Amount			625.00					
9	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In all kinds of soils upto 300 mm depth ((V-I, P.No-8, I No-1.12 of CSR 2023-24)							
	Cum							
For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
Allansandra Colony								
Allansandra Burial Ground to R.O Plant Through Shaneshwara Temple		2	676.50	0.80	0.25	270.60		
Connecting Rd 2nd Cross Rd		2	70.00	0.47	0.25	16.45		
						287.05	120.00	34,446.00
Approved Amount			120.00					
10	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III, P.No-26, I No-4.17) of CSR 2023-24).							
	Cum							

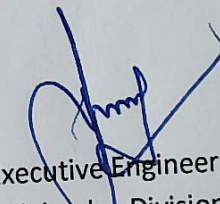
Description of Items		Unit	No	Length	Width	Depth	Quantity	Rate	Amount
For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion									
Allansandra Colony									
Allansandra Burial Ground to R.O Plant Through Shaneshwara Temple			2	676.50	0.80	0.225	243.54		
Connecting Rd 2nd Cross Rd			2	70.00	0.47	0.225	14.81		
							258.35	2900.00	749200.50
Approved Amount			2900.00						
11	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III, P.No-31, I No-5.1(i) of CSR 2023-24).								
		Sqm							
For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion									
Allansandra Colony									
Allansandra Burial Ground to R.O Plant Through Shaneshwara Temple			2	676.50	0.80		1082.40		
Connecting Rd 2nd Cross Rd			2	70.00	0.47		65.80		
							1148.20	50.00	57,410.00
Approved Amount			50.00						
12	Providing and applying tack coat with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom. (V-III, P.No-43, I No-5.32 of CSR 2023-24).								
		Sqm							
For BC									
Allansandra Colony									
Allansandra Burial Ground to R.O Plant Through Shaneshwara Temple			1	676.50	6.45		4363.43		
Connecting Rd 2nd Cross Rd			1	70.00	4.53		317.10		
							4680.53	15.00	70,207.88
Approved Amount			15.00						
13	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. (V-III, P.No-35, I No-5.12C of CSR 2023-24).								
		Cum							
For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion									
Allansandra Colony									
Allansandra Burial Ground to R.O Plant Through Shaneshwara Temple			2	676.50	0.80	0.05	54.12		
Connecting Rd 2nd Cross Rd			2	70.00	0.47	0.05	3.29		
							57.41	11000.00	631510.00

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Approved Amount	11000.00							
providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.38, I.No.5.16C of CSR 2023-24).								
	Cum							
For BC								
Allansandra Colony								
Allansandra Burial Ground to R.O Plant Through Shaneshwara Temple		1	676.50	6.45	0.04	174.54		
Connecting Rd 2nd Cross Rd		1	70.00	4.53	0.04	12.68		
						187.22	12270.00	2297201.67
Approved Amount	12270.00							
15	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. (V-III Page No.49, Item No.6.1 of CSR 2023-24)							
	Cum							
For CC Road								
Kanakanagara		1	14.70	3.00	0.15	6.62		
5th Cross Rd/2		1	45.90	1.00	0.15	6.89		
Connecting Rd						13.50	5500.00	74,250.00
Approved Amount	5500.00							
16	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade) , coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.(V-III, P.No-148, I No-16.28, CSR 2023-24).							
	Cum							
For CC Road								
Kanakanagara		1	14.70	3.00	0.15	6.62		
5th Cross Rd/2		1	45.90	1.00	0.15	6.89		
Connecting Rd						13.50	7500.00	101250.00
Approved Amount	7500.00							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
17	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.(V-III,I No-8.15, P.No-67 of CSR 2023-24)								
		Sqm							
	For Edge Line								
	Allansandra Colony								
	Allansandra Burial Ground to R.O Plant Through Shaneshwara Temple		2	676.50	0.10		135.30		
	Connecting Rd 2nd Cross Rd		2	70.00	0.10		14.00		
							149.30	600.00	89,580.00
	Approved Amount		600.00						
18	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 100 t.km (V-III Page No.5, Item No.1.4C of CSR 2023-24)								
		t.Km							
	Qty frm Item No-2		1	701.98	1.28		898.53		
	Qty frm Item No-9		1	287.05	1.28		367.42		
	Qty frm Item No-8		1	20.21	2.10		42.43		
							1308.39	92.00	120371.54
	Approved Amount		92.00						
	Total Construction Cost								8714067.67
	18% GST For S.R Items								1568532.18
	Sub Total 1								10282599.85
	Utility Shifting,Miscellaneous and Rounding off								5,226.15
	GRAND TOTAL								10287826.00


 Assistant Engineer
 BBMP Bangalore


 Asst. Executive Engineer
 BBMP Bangalore
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 ಕೆ.ಜಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-108


 Executive Engineer,
 Yelahanka Division
 BBMP Bangalore

Technical Sanction
 Accorded For RS 10282599.85
 Head of A/C D.1878
 CER NO 86 Dt: 18-06-24



